

Highway Division Owner Representative Program Annual Report

12/17/2018

Capital Programs Committee

Program Background

Statutory Duty

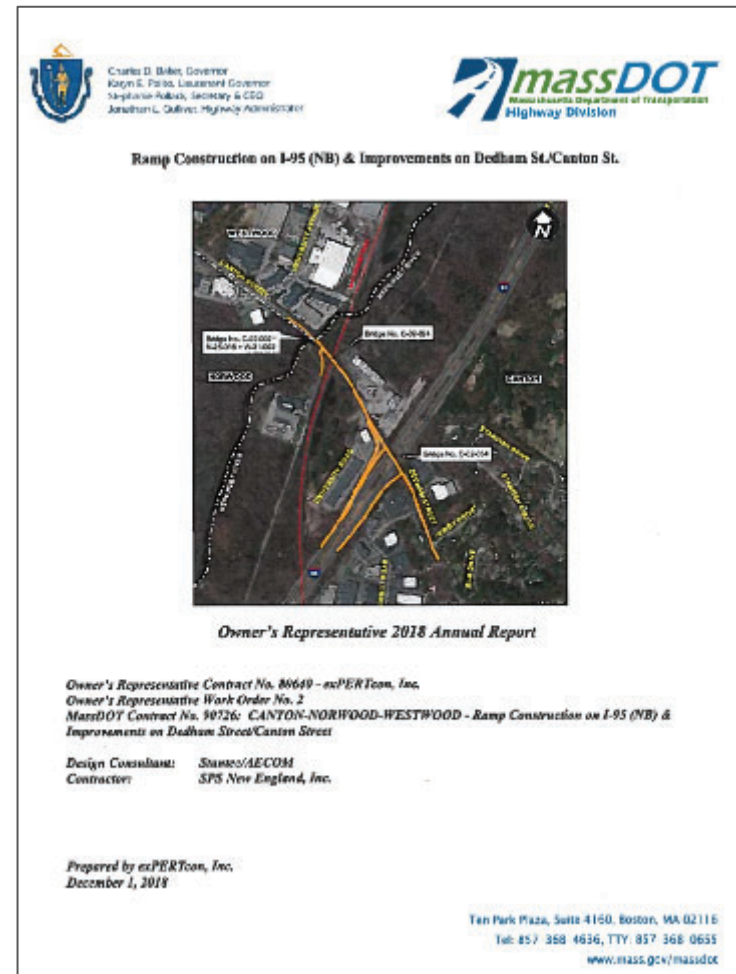
- Assigned to contracts in excess of \$50 million to provide independent project oversight
- Conduct peer review, cost recovery and value engineering on assigned projects
- File reports annually to Inspector General, Secretary of Transportation, House and Senate Chairs of the Joint Committee on Transportation and the State Auditor

2018 Report in draft form and will be submitted by year-end

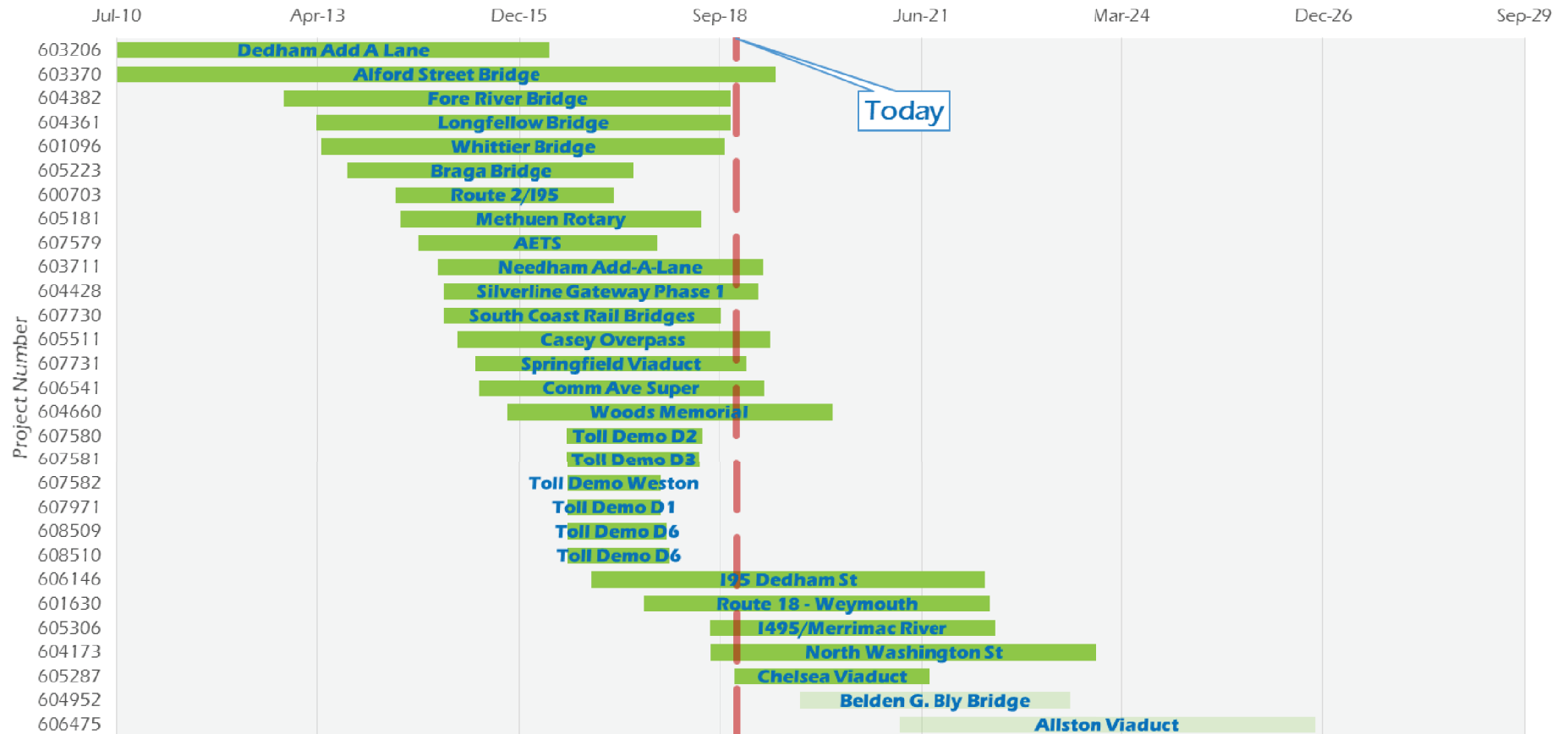
Structure of Annual Report

For each project...

1. Executive Summary
2. Report Body
 - i. Scope of work
 - ii. Major Progress to-date
 - iii. Budget review
 - iv. Schedule review
 - v. Adherence to Milestones (where applicable)
 - vi. Areas of Concern
 - vii. Project Photos
3. Statutory Compliance
 - i. Peer Review
 - ii. Value Engineering
 - iii. Cost Recovery



Projects discussed in 2018 Annual Report



Program Performance

- Of the 30 projects featured in the annual report, 11 have reached full beneficial use or beyond, the point at which MassDOT evaluated a project for schedule and budget
 - On Budget Performance 82% (75% SFY 18 HWY-wide)
 - On Schedule Performance 64% (59% SFY 18 HWY-wide)

Proj #	Contract #	Location	Desc	Cmpltn Date	onTime	onBudget
600703	76862	LEXINGTON	Route 2/I95	4/18/2017	YES	YES
605223	73768	FALL RIVER –SOMERSET	Braga Bridge	7/25/2017	YES	YES
605181	79297	METHUEN	Methuen Rotary	6/24/2018	YES	YES
607730	83799	FALL RIVER -NEW BEDFORD	South Coast Rail Bridges	9/28/2018	NO	YES
601096	73274	AMESBURY -NEWBURYPORT –SALISBURY	Whittier Bridge	10/18/2018	NO	YES
604382	71680	QUINCY –WEYMOUTH	Fore River Bridge	11/15/2018	NO	YES
604361	72699	BOSTON –CAMBRIDGE	Longfellow Bridge	11/15/2018	NO	NO
607731	85020	SPRINGFIELD	Springfield Viaduct	2/4/2019	YES	YES
603711	79875	NEEDHAM –WELLESLEY	Needham Add-A-Lane	4/25/2019	YES	NO
604660	85015	EVERETT –MEDFORD	Woods Memorial	4/5/2020	YES	YES
VARIOUS	VARIOUS	VARIOUS	All Electronic Tolling	Various	YES	YES

Note: All electronic tolling measured collectively considering all contracts (i.e. total spending vs total budget)

Notable Project Successes

- Methuen Rotary Project - Interchange reconstruction I93/RTE 100 & 113
 - completed within original budget of \$66,385,292.70
 - reached substantial completion 3 months ahead of schedule
- Woods Memorial Project – Bridge Replacement
 - projected to be completed within original budget of \$81,310,058.29
 - projected to reach full beneficial use 8 months ahead of schedule
- Springfield Viaduct Rehabilitation Project
 - Projected to be completed within original budget of \$176,886,122.99
 - Achieved full beneficial use milestone ahead of schedule and is projected to meet remaining milestones for substantial and final completion
 - Successfully coordinated without disturbance to MGM Casino opening



Projects highlighted in this presentation

Project No	Contract No	Description
606146	90726	I95 Dedham St Interchange
601630	97936	Route 18 Weymouth
605306	103045	Haverhill 495 Bridge Replacement
604173	102269	N. Washington St Bridge Replacement

195 Dedham St (606 146/90726)

Budget Performance

- Projections currently within original Budget (\$51,528,337.27)

Schedule Performance

- Current Completion Date 5/5/2022 Forecasted Finish: 10/16/2023
- The contractor is developing a plan for a Recovery Schedule



Current Activities Phase 1 work underway on River and Railroad bridges
CIP Retaining walls ,utility duct banks and drainage work is ongoing

Project Risks Current contractor schedule forecasts a completion date 529 beyond contractual completion
Delay attributed to unanticipated utility relocations and lengthy submittal review by Amtrak
Further delays attributed to anticipated utility relocations, continue to be a concern

Designer	Stantec Inc.
Contractor	SPS NEW ENGLAND INC
Owners Rep.	Richard Littlefield (ExpertCon, Inc.)
NTP	12/22/2016

Weymouth Route 18 (601630/97936)

Budget Performance

- Projections currently within original Budget (\$68,712,094.80)

Schedule Performance

- Contractor schedule forecasts achievement of interim and completion milestones
- Current Completion Date 5/27/2022



Current Activities	Wetland mitigation and detention pond construction.
	Bridge support-of-excavation work underway
	Roadway work from Abington town line to MBTA bridge

Designer	Tetra Tech, Inc.
Contractor	GIOIOSO-D&R JV
Owners Rep.	Paul Tyrell (STV, Inc.)
NTP	9/11/2017

Project Risks	NGRID Gas will be an impact to the schedule on bridge work due to gas main still being active on bridge and NGRID labor dispute stopping gas main work
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Haverhill I495 Bridge Replacement (605306/103045)

Budget Performance

- Projections currently within original Budget (\$102,628,272.74)

Schedule Performance

- Contractor schedule forecasts achievement of interim and completion milestones
- Current Completion Date 6/23/2022



Current Activities Focus on construction of temporary work trestle

Project Risks Work to complete trestle must be completed by in-water work-window deadline of February 28th.
Temporary Trestle consists of 150 - 24" diameter driven pipe piles, extensive header and beam structure and 30k SF of crane mat

Designer	AECOM Technical Services, Inc.
Contractor	SPS NEW ENGLAND INC
Owners Rep.	Eric Botterman (Millennium Engineering, Inc.)
NTP	8/1/2018

North Washington Bridge Project (604173/102269)

Budget Performance

- Projections currently within original Budget (\$204,385,944.75)

Schedule Performance

- Current Completion Date 11/7/2023
- Notice to Proceed Date 8/8/2018



Current Activities Contractor is performing borings at the North and South Piers, demolition of existing fenders system and establishment of Stage 1A work zone. Demolition of the West Sidewalk is scheduled to start mid December 2018.

EverSource is scheduled to continue work for the month of December, schedule delayed due to discovery of concrete Slab and timber platforms at the South End of the Bridge.

Project Risks Submittal, procurement, fabrication, and delivery of the temporary utility bridge. Permit amendments for Temporary vehicular bridge.

Extensive utility coordination are critical to keep schedule and relocation of the utilities for the temporary utility bridge.

Designer	James P. Purcell Associates
Contractor	J F WHITE CONTRACTING CO
Owners Rep.	Jeffrey Paul (Stantec, Inc.)
NTP	8/8/2018

Upcoming OR projects

Project No	Contract No	Description	Notes
605287	104667	Chelsea Viaduct	NTP 12/3/2018
604952	TBD	Belden G. Bly Bridge	ADV 3/16/2019
604173	TBD	Allston Multi-Modal	ADV TBD